

EPA/MEW Meeting

TCE Potential Source Investigation

**Middlefield-Ellis-Whisman (MEW)
Superfund Study Area
Mountain View and Moffett Field, CA**

January 15, 2015

Draft Agenda



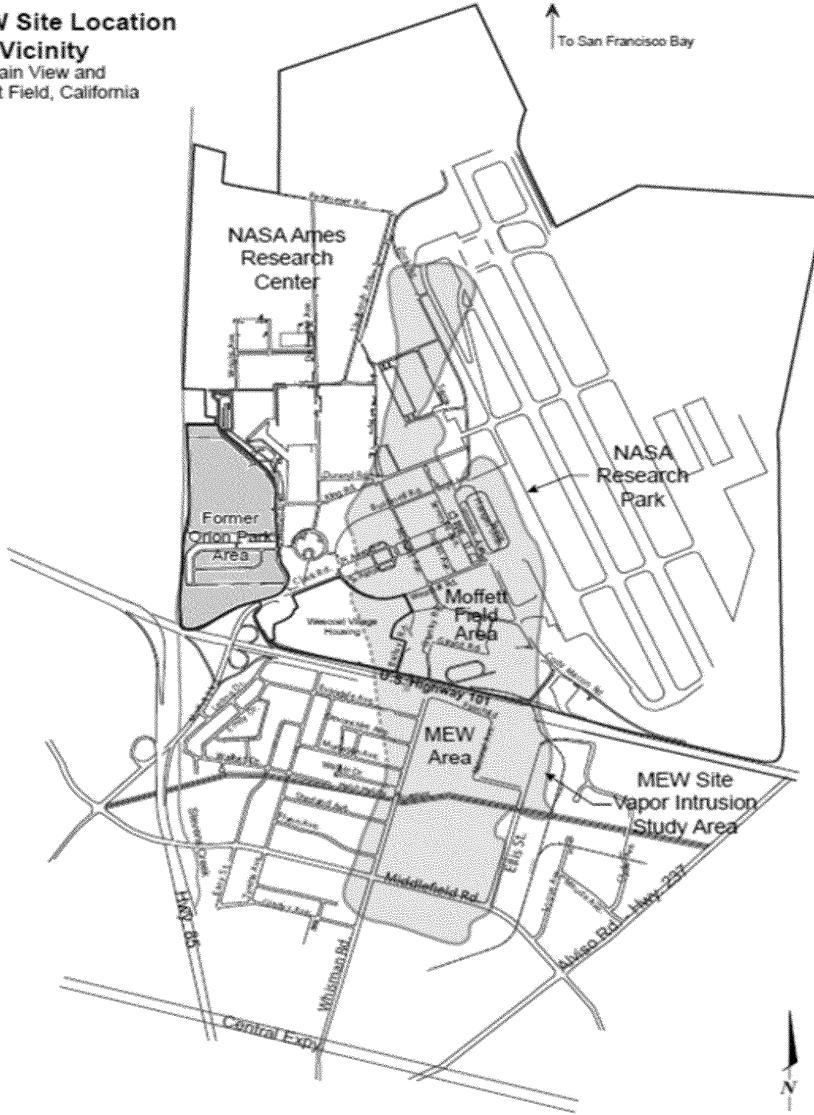
- Purpose of Meeting and Overview/Background
- EPA Presentation - TCE Source Investigation, PRP Search, Summary of Findings, and Next Steps
- Discussion
- Approach/Schedule
- Other Items

MEW/Moffett Field Vapor Intrusion Study Area (as known in 2013)

3

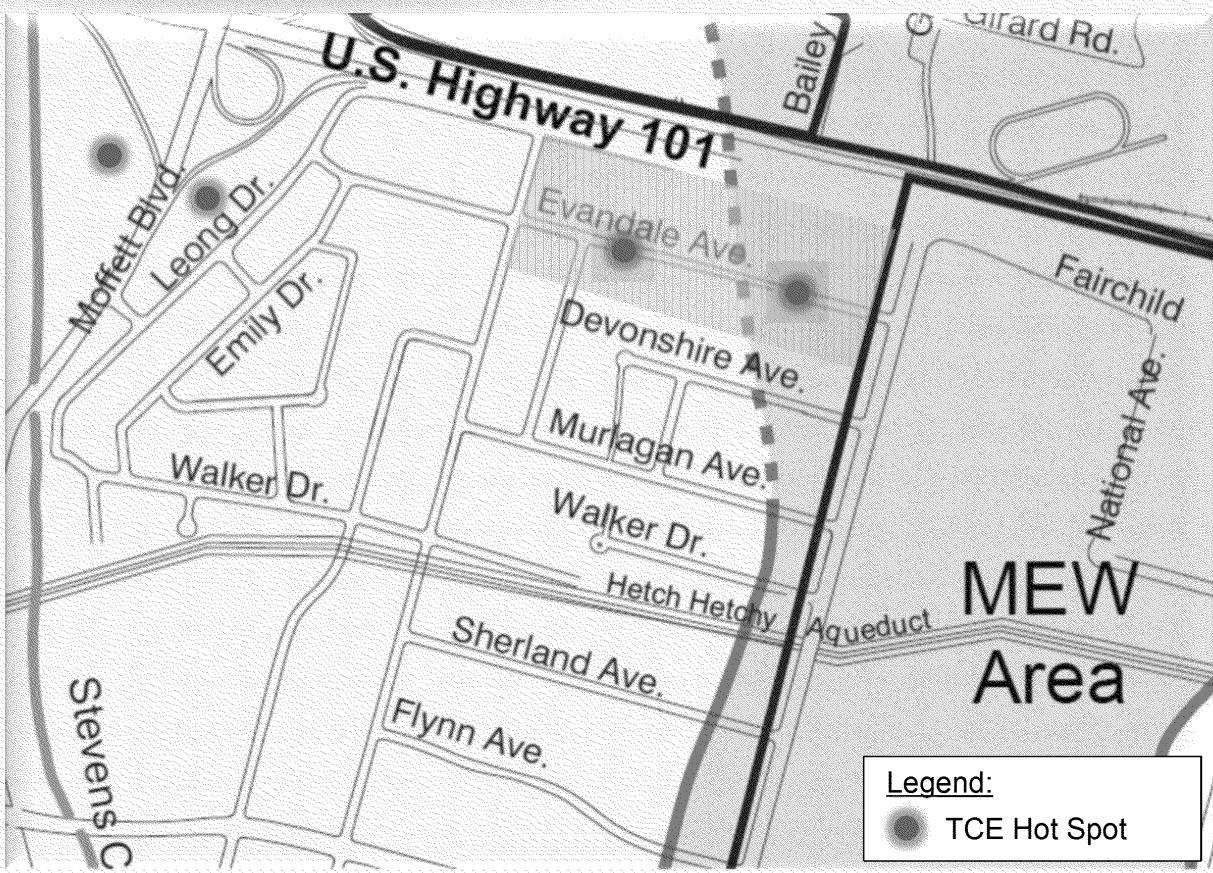
MEW Site Location and Vicinity

Mountain View and
Moffett Field, California

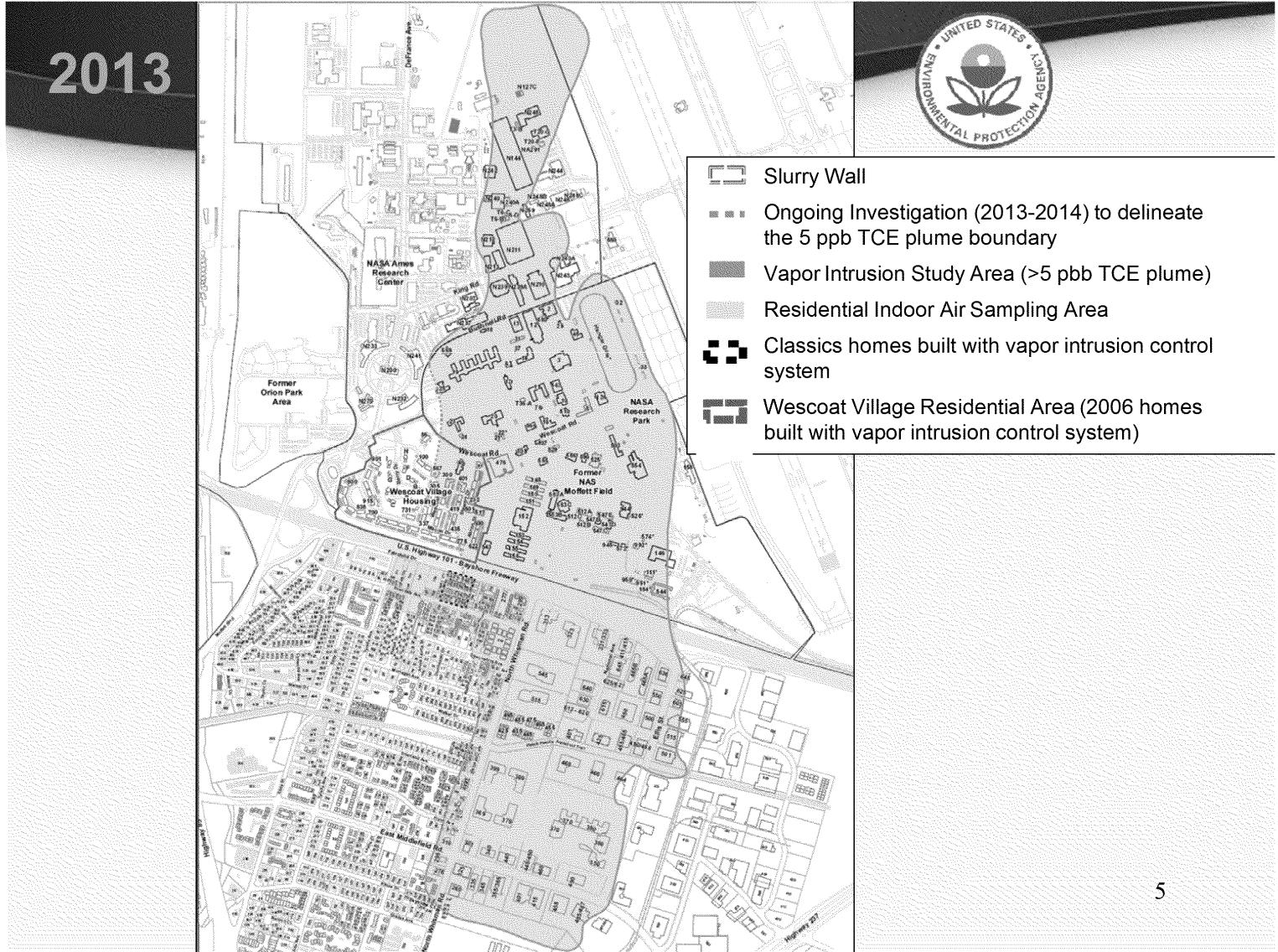


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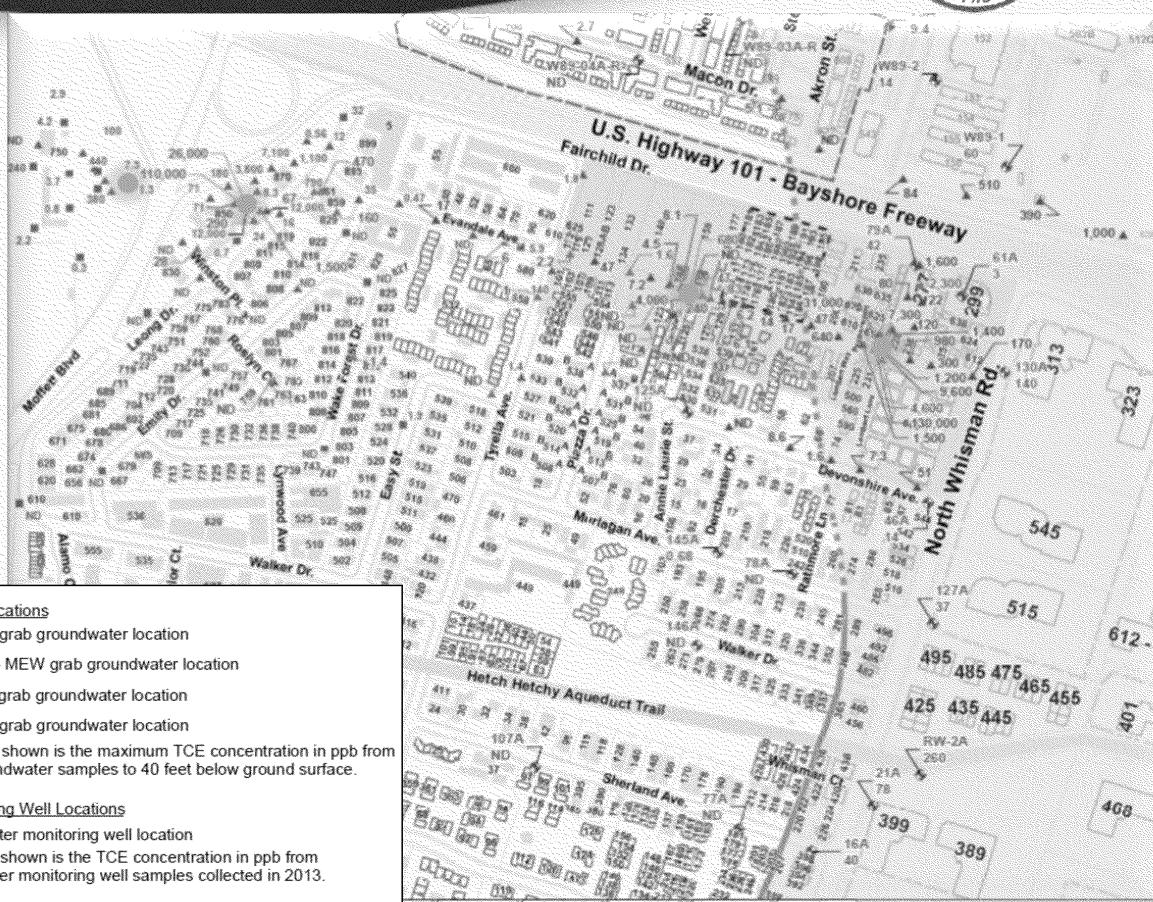
TCE Hot Spot Area and Residential Air Sampling Area



2013



Groundwater Sampling (2005-2013)

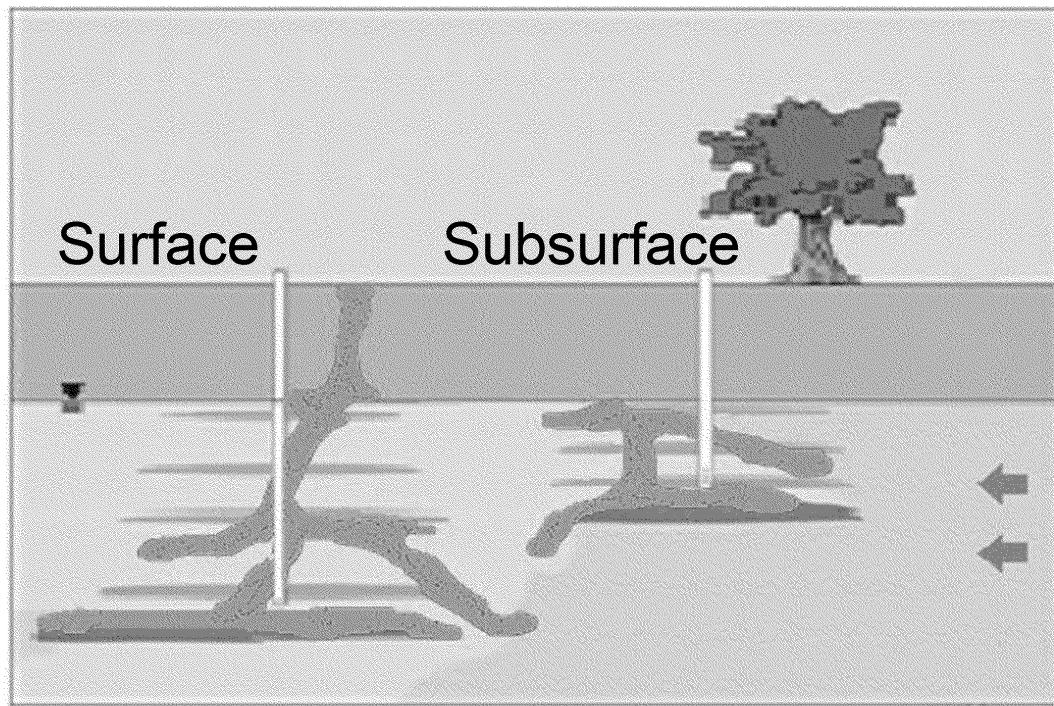


EPA Potential TCE Source Investigation

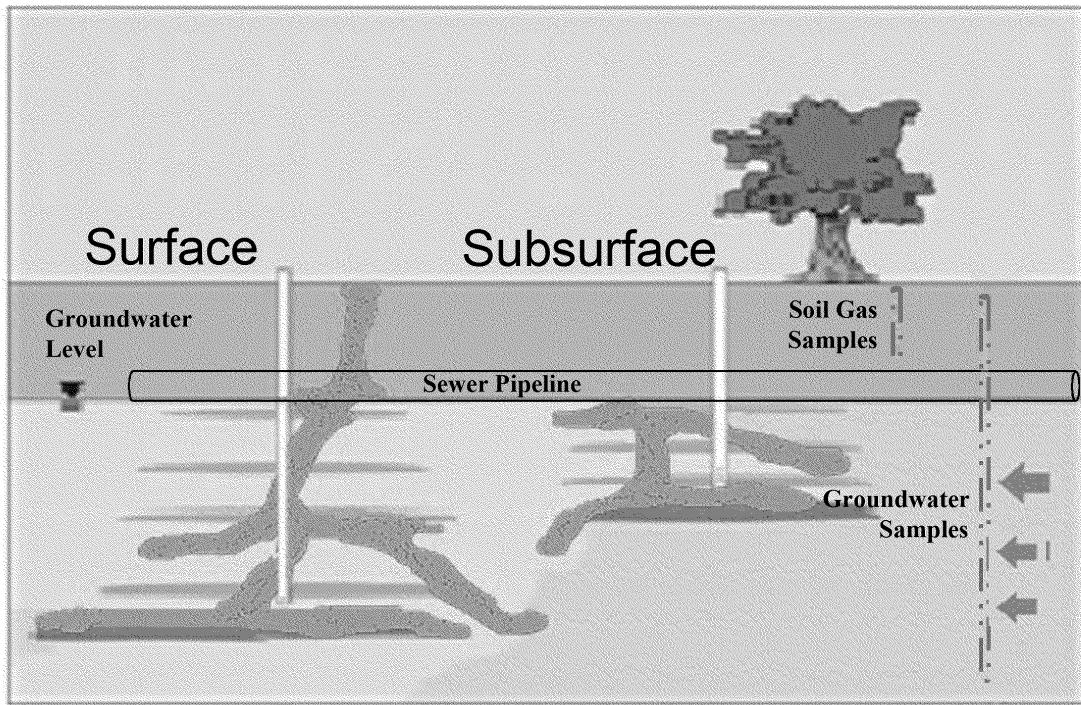


- In 2013-2014, EPA conducted potential source investigation of TCE Hot Spot Areas and conducted additional groundwater investigation to fill data gaps on Fairchild Drive.
- Assessed potential migration pathways to TCE Hot Spot Areas – surface, subsurface, regional groundwater contamination

Potential Source Type

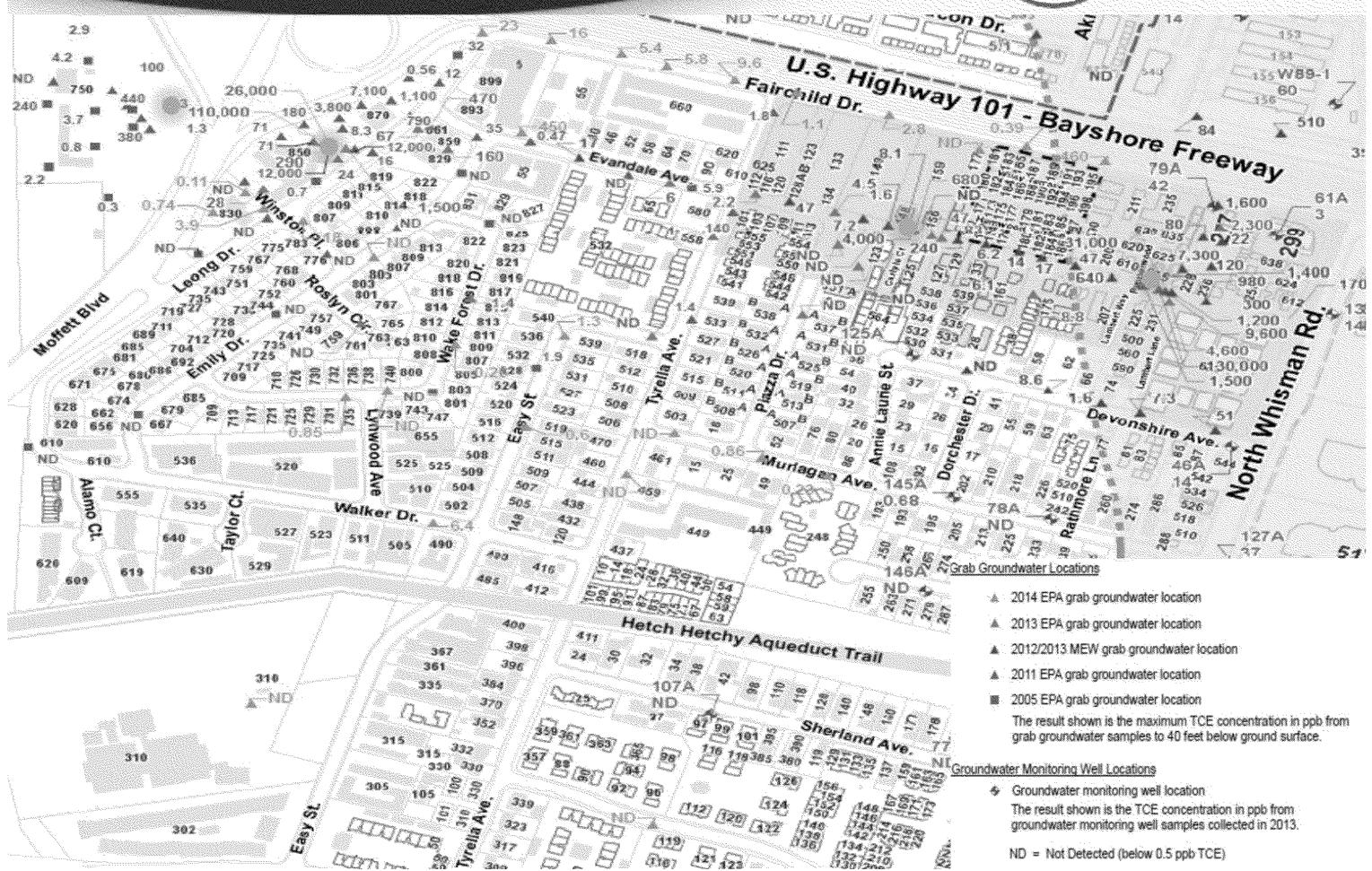


Sampling near Source Types



9

TCE Shallow Groundwater Results Residential Areas (2005 - 2014)



Current Sewer Flow Direction



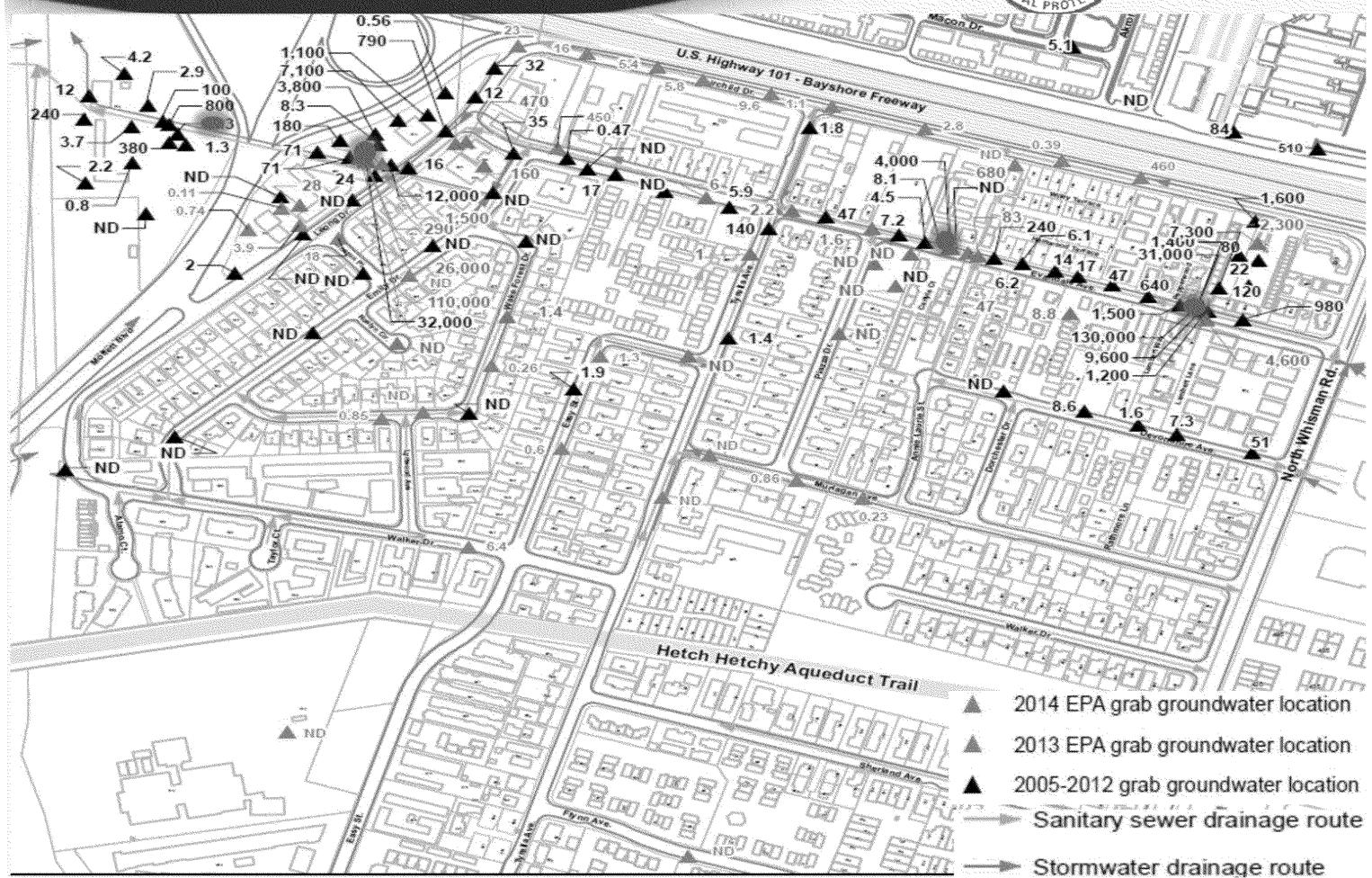
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Current Storm Drainage Flow

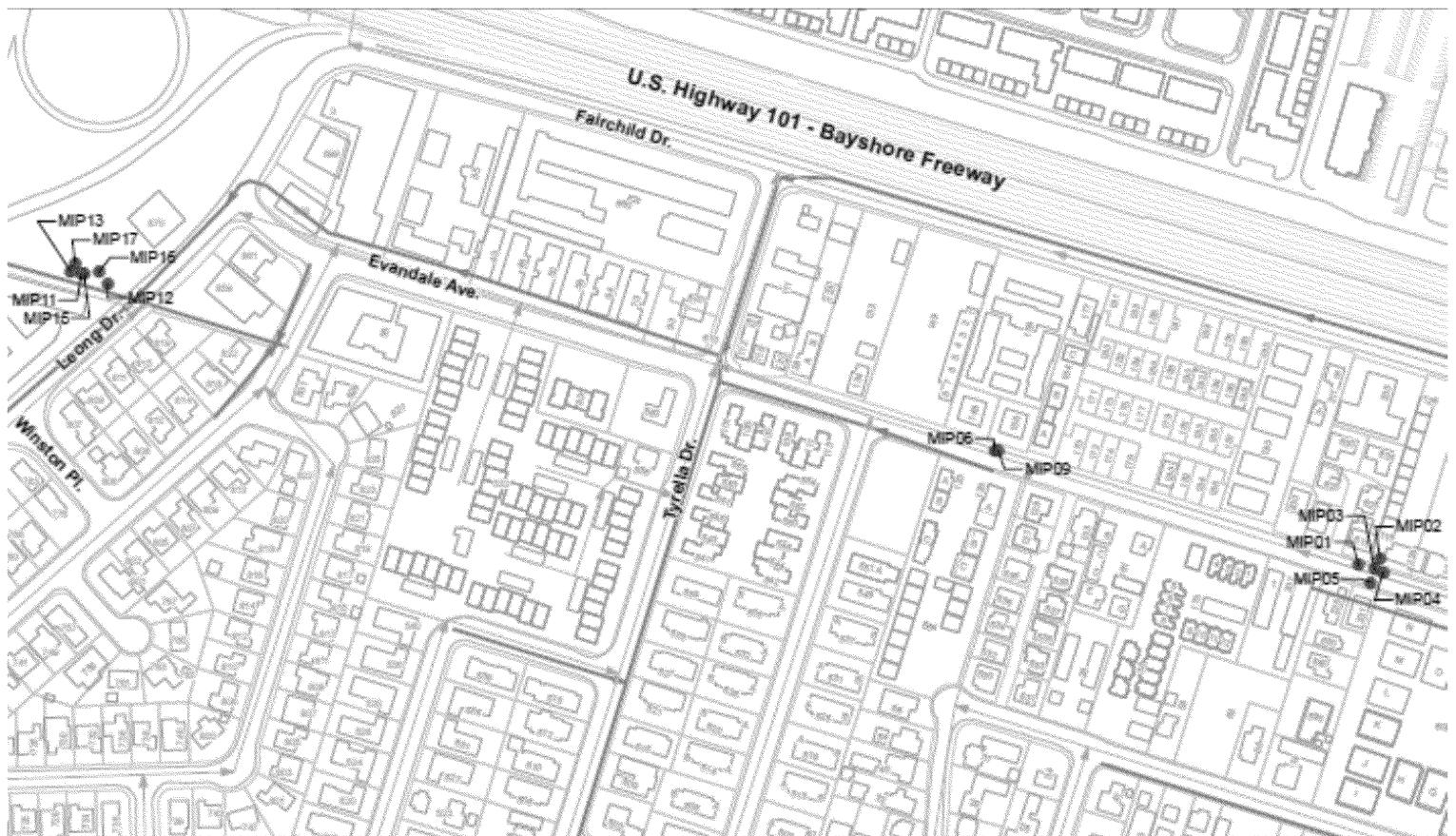


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TCE Shallow Groundwater Results (2005-2014)



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- Membrane Interface Probe (MIP) Sampling Location
- Sanitary sewer drainage route
- Stormwater drainage route

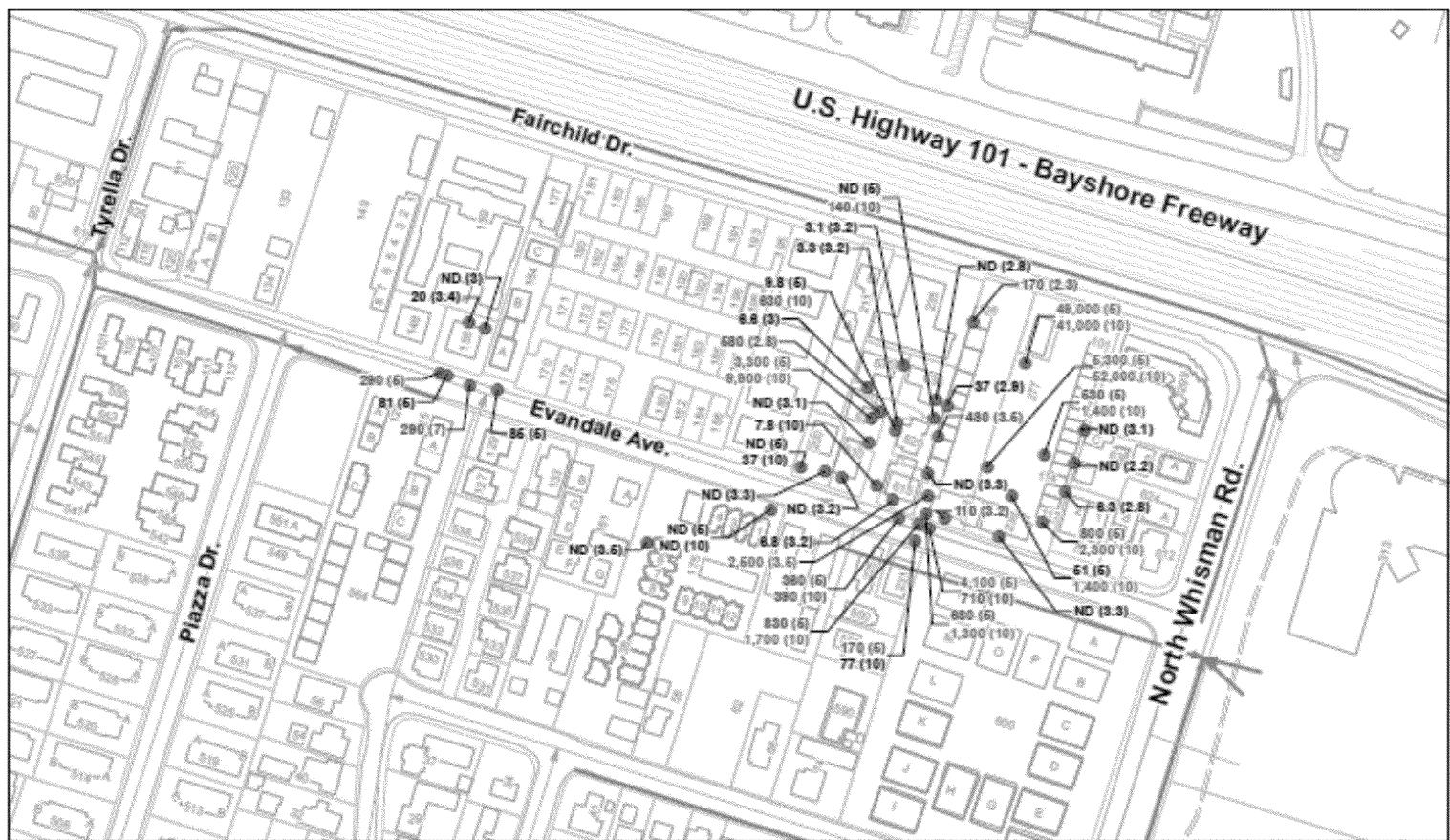
**MEMBRANE INTERFACE PROBE (MIP) SAMPLING LOCATIONS
SEPTEMBER 2013**

**In Vicinity of Highway 101 & Moffett Blvd Study Area and
MEW Superfund Site, Mountain View, CA**

0 90 180 Feet

1 inch = 252 feet

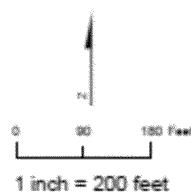


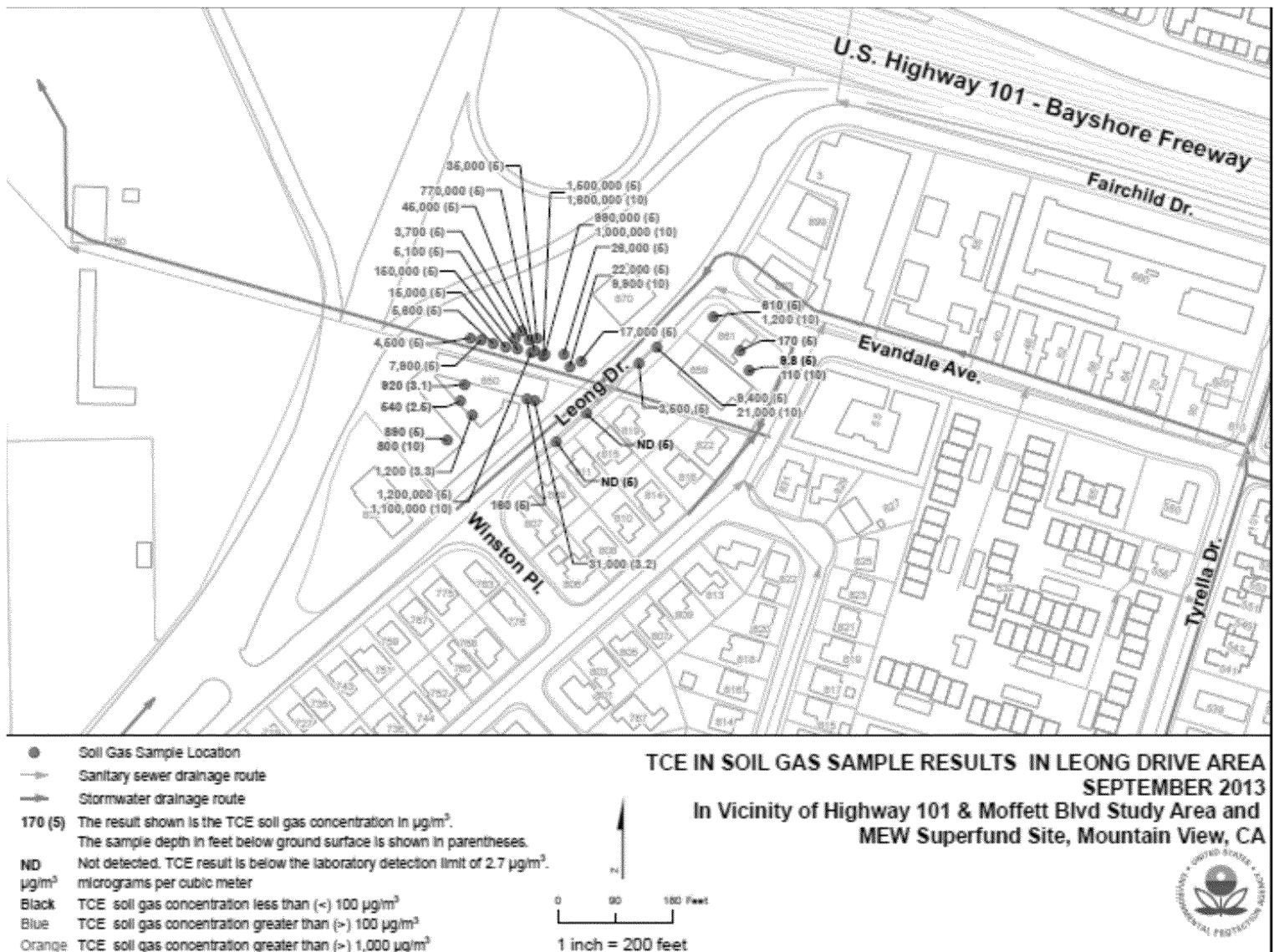


● Soil Gas Sample Location
 → Sanitary sewer drainage route
 ← Stormwater drainage route

170 (5) The result shown is the TCE soil gas concentration in $\mu\text{g}/\text{m}^3$.
 The sample depth in feet below ground surface is shown in parentheses.
 ND Not detected. TCE result is below the laboratory detection limit of 2.7 $\mu\text{g}/\text{m}^3$.
 $\mu\text{g}/\text{m}^3$ micrograms per cubic meter
 Black TCE soil gas concentration less than ($<$) 100 $\mu\text{g}/\text{m}^3$
 Blue TCE soil gas concentration greater than ($>$) 100 $\mu\text{g}/\text{m}^3$
 Orange TCE soil gas concentration greater than ($>$) 1,000 $\mu\text{g}/\text{m}^3$

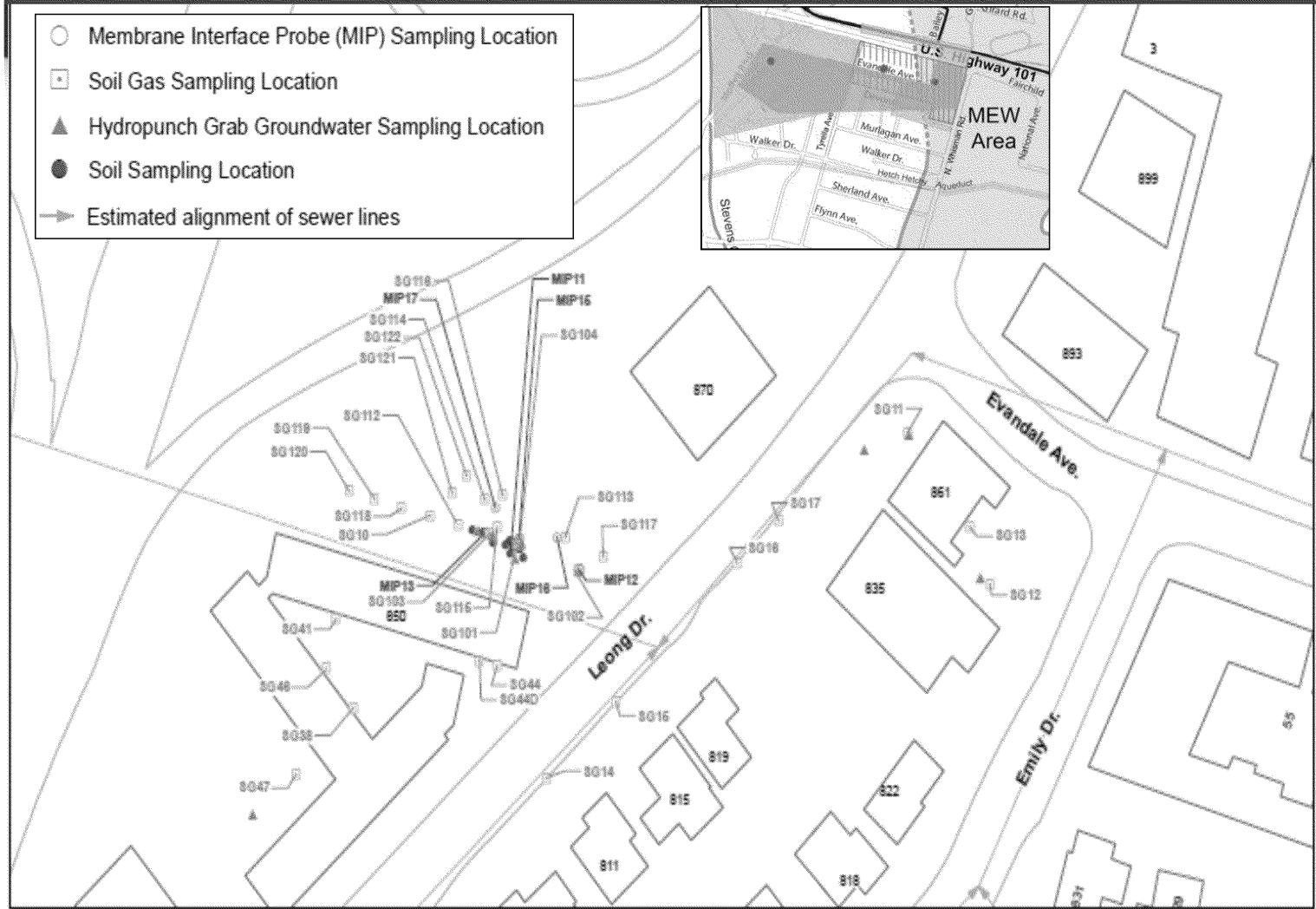
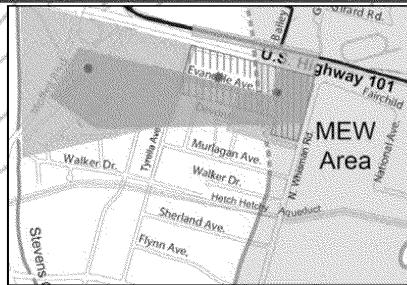
TCE IN SOIL GAS SAMPLE RESULTS IN RESIDENTIAL AREA
SEPTEMBER 2013
South of Highway 101
MEW Superfund Site, Mountain View, CA





EPA Sample Locations – Leong Drive Area

- Membrane Interface Probe (MIP) Sampling Location
 - Soil Gas Sampling Location
 - ▲ Hydropunch Grab Groundwater Sampling Location
 - Soil Sampling Location
 - Estimated alignment of sewer lines



Information Reviewed – Area of Interest



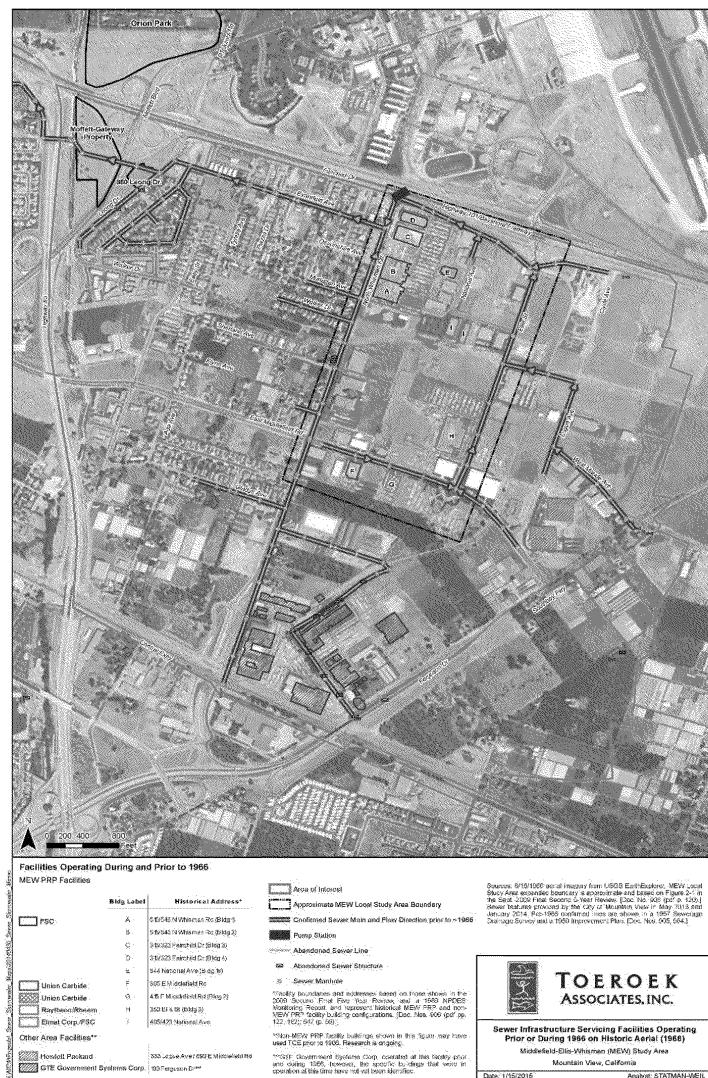
- Historical operations and use, aerial photos, City, County, State file search
- Utilities infrastructure – historical and current
- Previous PRP search information and updates



Historical TCE Operations

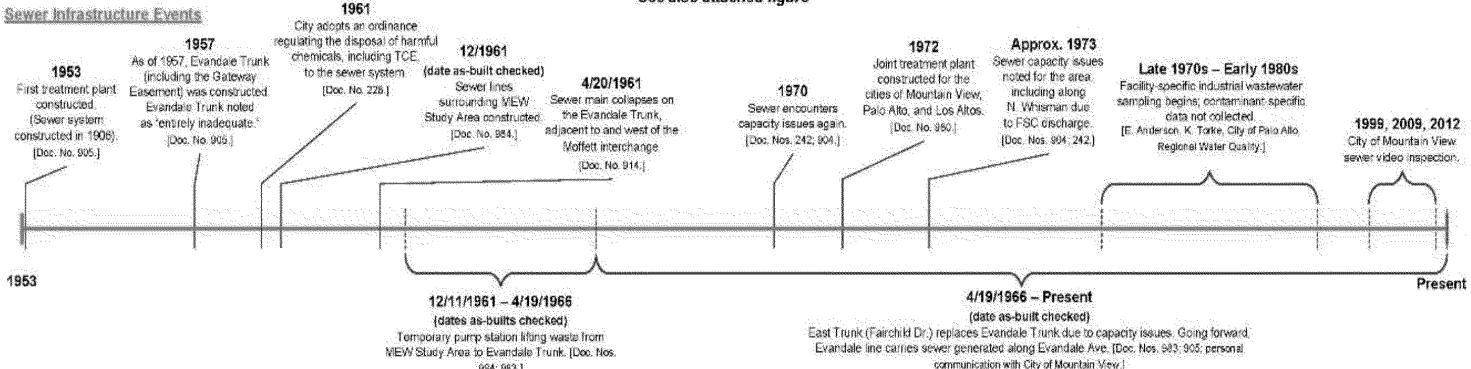
- Historical operations and TCE use – Sewer Timeline and Figure
- Pre-1966 Sewer Flow and Migration Path to TCE source areas (Hotspots 1-4)

Historic Sewer Map – Pre-1966

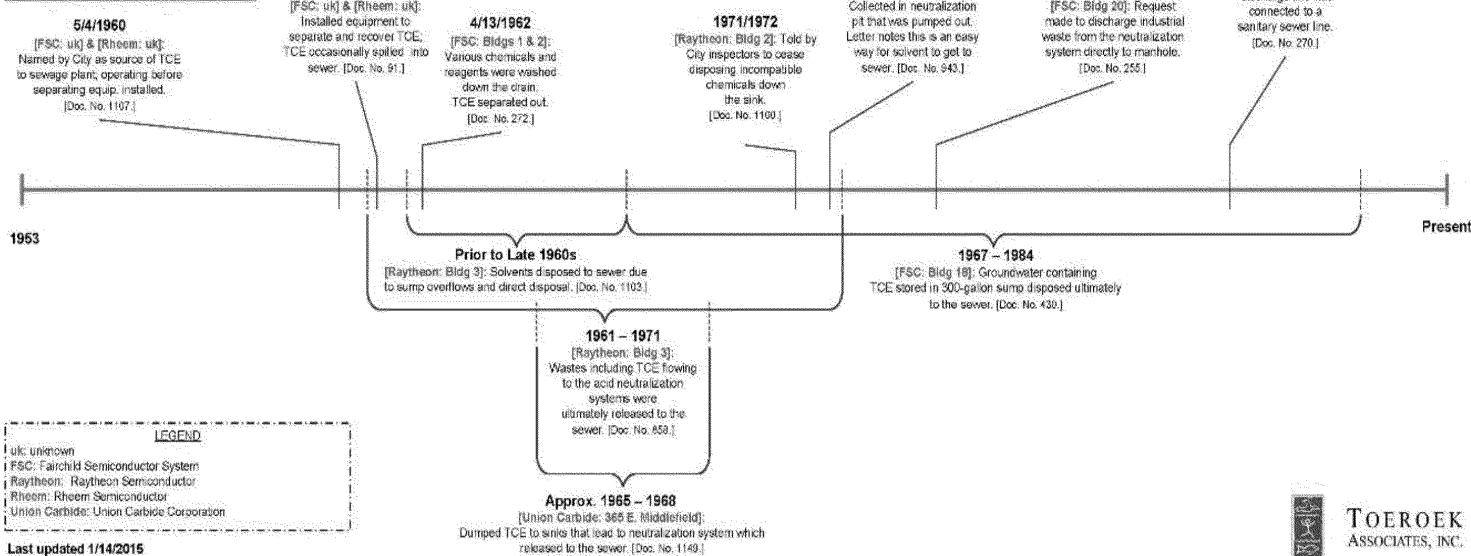


Middlefield-Ellis-Whisman (MEW) Site
Draft Timeline – City of Mountain View Sewer System
See also attached figure

Sewer Infrastructure Events:



PRP TCE Releases to Sewer Events:



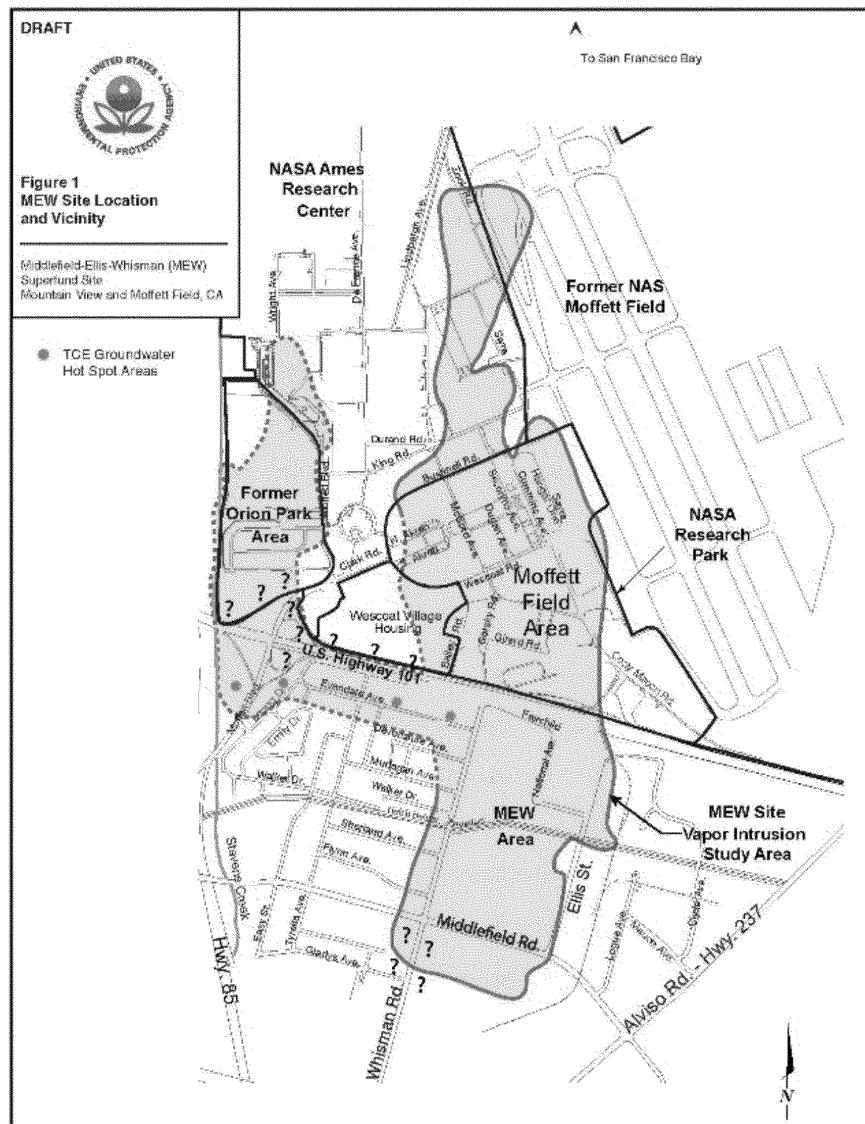
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ASSOCIATES, INC.

Next Steps

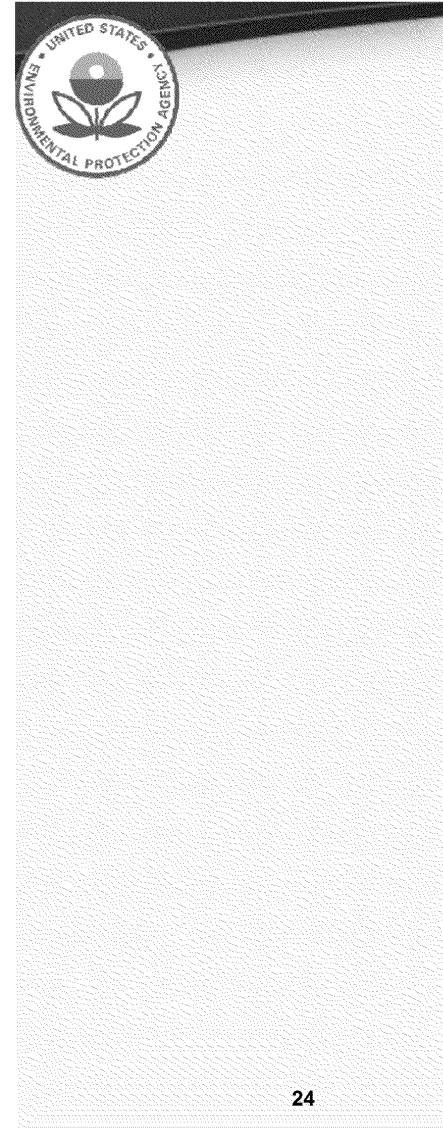
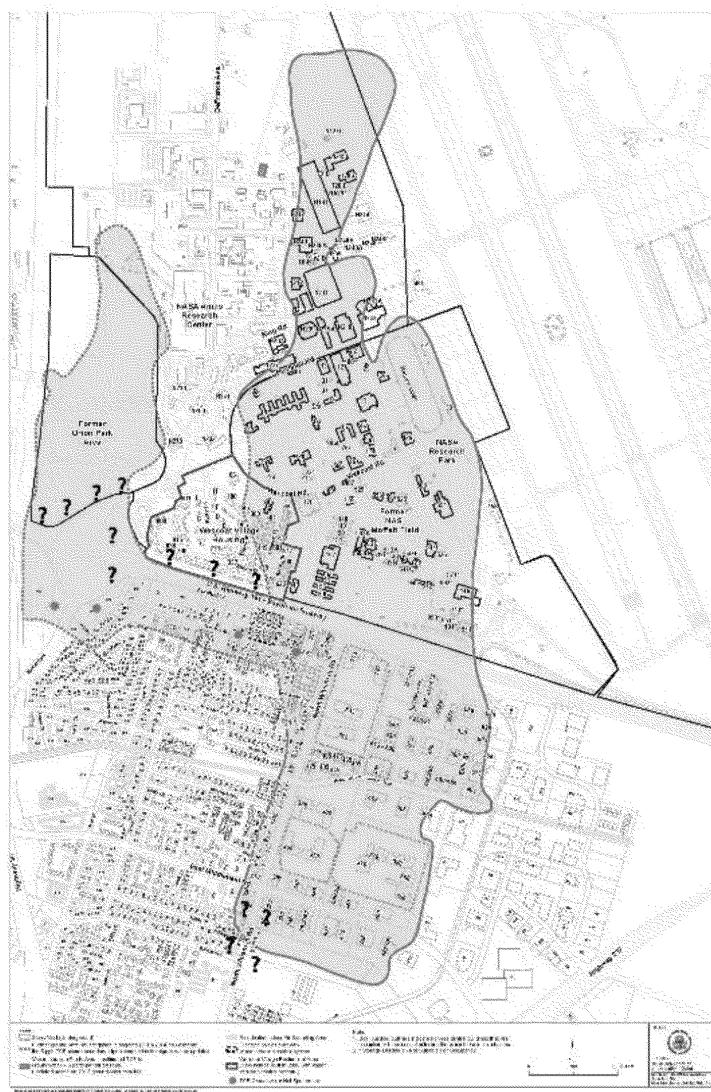


- Potential Vapor Intrusion Concerns
- Source Area / Hot Spot – Characterization and Remediation
- Determine Extent of Contamination from TCE Source Areas
- *Data Gaps*
- Approach / Next Steps

2015



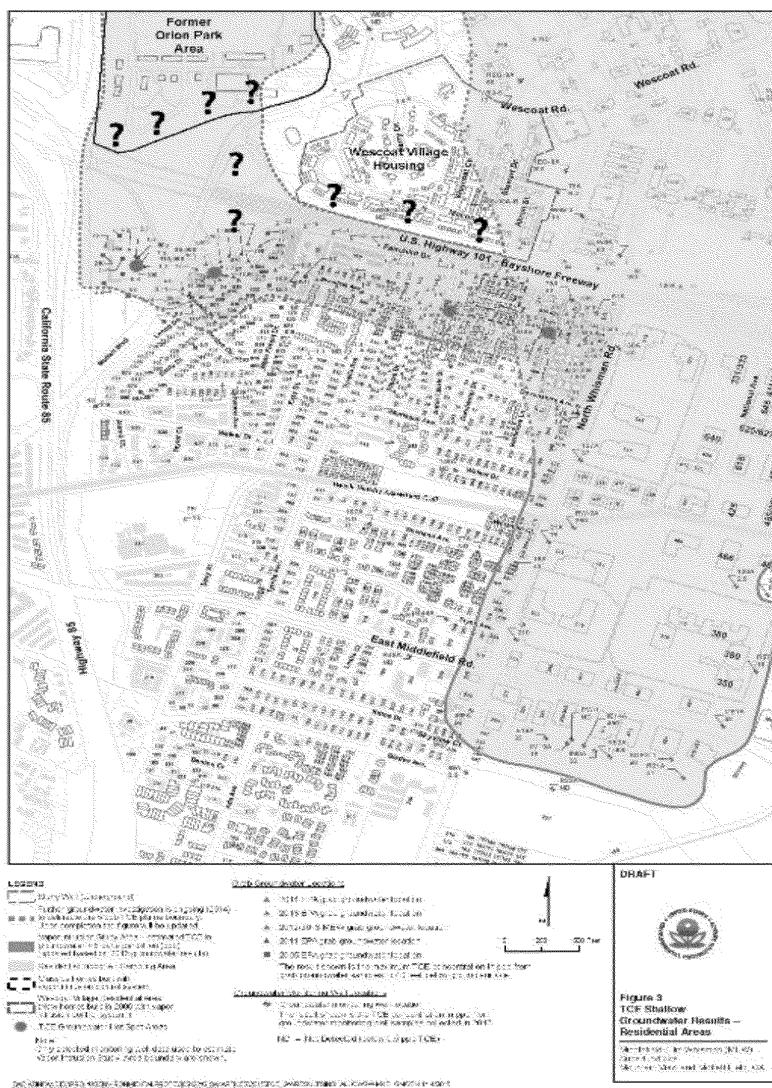
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24

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More Next Steps



- Approach
- Agreements
- EPA Follow-up
- Stakeholder Meetings – All Parties, Work Parties, Moffett Field RAB, community meetings